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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/763,196 01/26/2004		1/26/2004	Mou-Ming Ma	MR3003-73	6436	
4586	7590	11/12/2004		EXAMINER		
ROSENBE			HIRSCH, PAUL J			
3458 ELLICOTT CENTER DRIVE-SUITE 101 ELLICOTT CITY, MD 21043			2 101	ART UNIT	PAPER NUMBER	
	,	-		3753		

DATE MAILED: 11/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)						
		10/763,196	MA ET AL.	(0 (
	Office Action Summary	Examiner	Art Unit						
		Paul J. Hirsch	3753						
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1)⊠	Responsive to communication(s) filed on 26 January 2004.								
2a)	This action is FINAL . 2b)⊠ This action is non-final.								
3)□									
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
4)🖂	Claim(s) <u>1-16</u> is/are pending in the application.								
•	4a) Of the above claim(s) is/are withdrawn from consideration.								
	Claim(s) is/are allowed.								
· -	Claim(s) <u>1-8 and 10-16</u> is/are rejected.								
· —	Claim(s) <u>9</u> is/are objected to.								
8)	Claim(s) are subject to restriction and/or election requirement.								
Applicat	ion Papers								
9) The specification is objected to by the Examiner.									
	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
,	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)□	I1) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
	under 35 U.S.C. § 119								
	_	priority under 25 H S C S 440(a)	-(d) or (f)						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 									
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage								
* 0	application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.									
Attachmen		_							
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	(PTO-413)						
3) 🔲 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal P		O-152)					

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 13-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

A. Claim 13, lines 2-3, it is not clear that a circular cross section of an element/pipe can have "sides".

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6, 8,10-13 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lofland et al in view of Lopatinsky et al. Loftland et al teaches apparatus as recited including gapped fins 40 having throughholes provided on plate 20, heat pipes 30, and fan 50 centered within the fins (figs. 2, 5 for example). To substitute a cross type fan such as taught by Lopatinsky et al (See fig. 6 for example) would be obvious for creating a better cooling patrtern for airflow. In regard to claims 11-12 and 16 note fins 15 in fig. 6 are extending from the base plate at an angle which

would be obvious to design within Lofland et al if desired for a variation of air flow dependent on use. In regard to claim 13, note that as broadly stated at least one side of the pipes of Lofland et al contacts the plate 20 while another side contacts the fins..

Claims 7 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lofland et al and Lopatinsky et al as applied to claims 1-6, 12-13 above, and further in view of Wang (5583746). The fastening of a fan by a corresponding fan plate would be obvious from Wang for convenient assembly.

Allowable Subject Matter

Claim 9 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 14 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul J. Hirsch whose telephone number is 703-308-1148. The examiner can normally be reached on 6:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Mancene can be reached on 703 3082696. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Art Unit: 3753

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov: Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

C-E, G-H are cited as further teachings including fin and fan placement.

Paul J. Hirsch Primary Examiner Art Unit 3753

Pjh

November 3, 2004